

LISTING OF CLAIMS

Claim 1 (previously amended) - A method for generating thrombin from a sole donor or a patient, the steps including:

- obtaining a blood product from the patient;
- sequestering plasma from the product;
- maintaining the plasma undiluted and unprocessed;
- enriching the prothrombin in a fraction of the undiluted, unprocessed plasma;
- converting the prothrombin to thrombin; and
- filtering particulate from the thrombin.

Claim 2 (original) - The method of claim 1 further including the step of altering the clotting time.

Claim 3 (previously amended) - The method of claim 2 wherein the enriching step occurs by adding ethanol to enrich the prothrombin in a plasma fraction.

Claim 4 (previously amended) - The method of claim 3 wherein the converting step occurs by adding CaCl_2 .

Claim 5 (original) - The method of claim 4 including centrifuging the blood product for obtaining plasma.

Claim 6 (previously amended) - The method of claim 2 wherein altering the clotting time, yielding a predictable clotting time extension occurs through diluting the thrombin with saline.

Claim 7 (original) - The method of claim 6 including filtering the plasma by weight size and protein binding.

Claim 8 (previously amended) - A method for producing autologous thrombin which is stable for more than 15 minutes, the steps including:

sequestering prothrombin from plasma using ethanol and converting the prothrombin to thrombin by adding calcium ions.

Claim 9 (amended) - ~~Autologous~~ Isolated autologous thrombin which provides fast clotting of less than five seconds, wherein said thrombin ~~which~~ is stable for more than 15 minutes.

Claim 10 (amended) - A thrombin composition free of fibrin clots, consisting essentially of:

Plasma;

Ethanol (ETOH); and

CaCl₂.

Claim 11 (amended) - The composition of claim 10 wherein ~~ETOH~~ ethanol is present at 13.6% and CaCl₂ is present at ~~0.023μm~~ 0.023 μM, both by volume.

Claim 12 (previously amended) - A method for preparing thrombin comprising:

obtaining plasma;

adding only ETOH and CaCl₂ to the plasma, forming a composition;

agitating the composition;

filtering the composition of particulate, thereby passing the thrombin through the filter.

Claim 13 (cancelled)

Claim 14 (new) - The composition of claim 10 wherein ethanol is present at a concentration between about 8% and about 18% by volume.

Claim 15 (new) - The composition of claim 10 wherein CaCl_2 is present at a concentration between about $0.011 \mu\text{M}$ and about $0.045 \mu\text{M}$ by volume.

Claim 16 (new) - Isolated autologous thrombin which provides fast clotting of less than about five seconds, wherein said thrombin is stable for at least about 240 minutes.

Claim 17 (new) - Isolated autologous thrombin which provides clotting of about 20 to about 30 seconds, wherein said thrombin is stable for up to about 150 minutes.

Claim 18 (new) - Isolated autologous thrombin which provides fast clotting of about three to about four seconds, wherein said thrombin is stable for up to about 360 minutes.

Claim 19 (new) - A thrombin composition free of fibrin clots, consisting essentially of:

- plasma;
- ethanol (ETOH); and
- a source of calcium ions.